Problem No. 32: Recognizing Good ISBNs

Pseudo code:

1. Define a function named 'isValidISBN' that takes a string 'isbn' as input and returns a boolean value.
2. Initialize a variable 'running_total' to 0.
3. Initialize a variable 'partial_sum' to 0.
4. Iterate over each character 'c' in the string 'isbn':
   a. If 'c' is a digit from 0 to 9, add its value to 'partial_sum' and add 'partial_sum' to 'running_total'.
   b. If 'c' is 'X' or 'x', check if it is the last character in the string. If it is, add 10 to 'partial_sum' and 'running_total'. Otherwise, return false.
   c. If 'c' is a hyphen '-', ignore it and move on to the next character.
   d. If 'c' is not a digit, 'X', 'x', or '-', return false.
5. Check if 'running_total' is divisible by 11. If it is, return true. Otherwise, return false.
6. In the main function:
   a. Define a character array 'isbn' of size 20.
   b. Read ISBN-10 codes from the input until the end of file.
   c. For each ISBN-10 code, call 'isValidISBN' function to check if it is valid or not.
   d. If the code is valid, print "isbn is correct." to the console. Otherwise, print "isbn is incorrect." to the console.
7. Exit program If no more ISBN-10 codes are input.